BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: Estimate For Improvements to Roads and Construction of Drains at Kempegowda Layout (Next to RR School) in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.

							Estimate Cost:		**1950000.00**
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-2 : Earth work excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3 **Page No. 138 / Item No. 19.2 / PWD SR 2014-15**	Cum							
	For CC Drain								
	Kempanna Layout 1st Phase		2	83.00	1.00	0.90	149.40		
			1	80.00	1.00	0.90	72.00		
			1	23.00	1.00	0.90	20.70		
	For Asphalting Road								
	Kempanna Layout 1st Phase		1	83.00	5.00	0.60	249.00		
			1	80.00	5.30	0.60	254.40		
			1	23.00	4.50	0.55	56.93		
							802.43	105.84	**84929.00**
	Basic Rate	98.00							
	Area Weightage @8%	7.84							
	Total	**105.84**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2014-15**	Cum							
	For CC Drain								
	Kempanna Layout 1st Phase		2	83.00	1.00	0.15	24.90		
			1	80.00	1.00	0.15	12.00		
			1	23.00	1.00	0.15	3.45		
							40.35	4847.04	**195578.00**
	Basic Rate	4488.00							
	Area Weightage @ 8%	359.04							
	Total	**4847.04**							
3	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31/ PWD SR 2014-15**	Sqm							
	CC Drain		2x3	83.00		0.60	298.80		
			3	80.00		0.60	144.00		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			3	23.00		0.60	41.40		
							484.20	292.68	**141716.00**
	Basic Rate	271.00							
	Area Weightage @ 8%	21.68							
	Total	**292.68**							
4	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No.	Cum							
	Bottom		2	83.00	0.90	0.15	22.41		
			1	80.00	0.90	0.15	10.80		
			1	23.00	0.90	0.15	3.11		
	Side Walls		2x2	83.00	0.15	0.60	29.88		
			2	80.00	0.15	0.60	14.40		
			2	23.00	0.15	0.60	4.14		
							84.74	6065.28	**513942.00**
	Basic Rate	5616.00							
	Area Weightage @ 8%	449.28							
	Total	**6065.28**							
5	KSRB 4.9.1: **Providing mild steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 **Page No. 17 / Item No. 4.45 / PWD SR**	Qtl							
			0.60	84.74			50.84		
							50.84	7975.80	**405498.00**
	Basic Rate	7385.00							
	Area Weightage 8%	590.80							
	Total	**7975.80**							
6	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specification NO. 406,	Cum							
	Kempanna Layout 1st Phase		1	83.00	5.00	0.15	62.25		
			1	80.00	5.30	0.15	63.60		
			1	23.00	4.50	0.15	15.53		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
							141.38	1438.56	**203376.00**
	Basic Rate	1332.00							
	Area Weightage @ 8%	106.56							
	Total	**1438.56**							
7	KSRRB 500-1. Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire brushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air, to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH chapter 5 \, **No. 157 / Item No. 21.1 /**	Sqm							
	Kempanna Layout 1st Phase		1	83.00	5.00		415.00		
			1	80.00	5.30		424.00		
			1	23.00	4.50		103.50		
							942.50	12.20	**11502.00**
	Basic Rate	11.30							
	Area Weightage @ 8%	0.90							
	Total	**12.20**							
8	KSRRB 500-4: Providing and applying primer coat for surfaces of medium porosity like cement stabilized soil base @ 1.10 Kg/sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications MORTH chapter 5, **No. 157 / Item No. 21.6 / PWD**	Sqm							
			Qty Vide Item No. 12				942.50		
							942.50	74.52	**70235.00**
	Basic Rate	69.00							
	Area Weightage @ 8%	5.52							
	Total	**74.52**							
9	KSRRB M500-18: Providing and laying **semi dense bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 508 complete in all respects as per specifications. **using 100-120 TPH capacity H.M.P with sensor paver grading II (25-30mm) with 5% CRMB-55 grade, No. 160 / Item No. 21.21.2 / PWD SR 2014-15**	Cum							
	Kempanna Layout 1st Phase		1	83.00	5.00	0.025	10.38		
			1	80.00	5.30	0.025	10.60		
			1	23.00	4.50	0.025	2.59		
							23.56	11070.00	**260837.00**
	Basic Rate	10250.00							
	Area Weightage @ 8%	820.00							
	Total	**11070.00**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			Vide Item No. 1-6				877.37	72.71	63789.00
	Basic rate for haulage of materials as per item no.17.4 page 144) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	**72.71**							
	1-1- TPI charges								
13	Miscellaneous and other Charges	L/S							845.00
									9757-0
								Total	**1950000.00**

(Rs. Ninteen Lakhs Fifty Thousand Only)

ADMINISTRATIVELY SANCTIONED FOR Rs 19.50 Lakhs
Rupees Nineteen lakhs Fifty thousand only
Under P-1771
Registered as EE ( ) No
Subject to conditions contained in enclosed memo ( ) No Je(4e)394/13-14
Dt 30/10/13 Estimate A/Sanctioned
No
dated
Rs 19.50 Lakhs

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2013-14.
3 This work included under 2011-12 22.75%.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer

30/10/13
Joint Commissioner (Yelahanka Zone) BBMP, Bengaluru-92.

Joint Commissioner (Yelahanka Zone) BBMP, Bengaluru-92

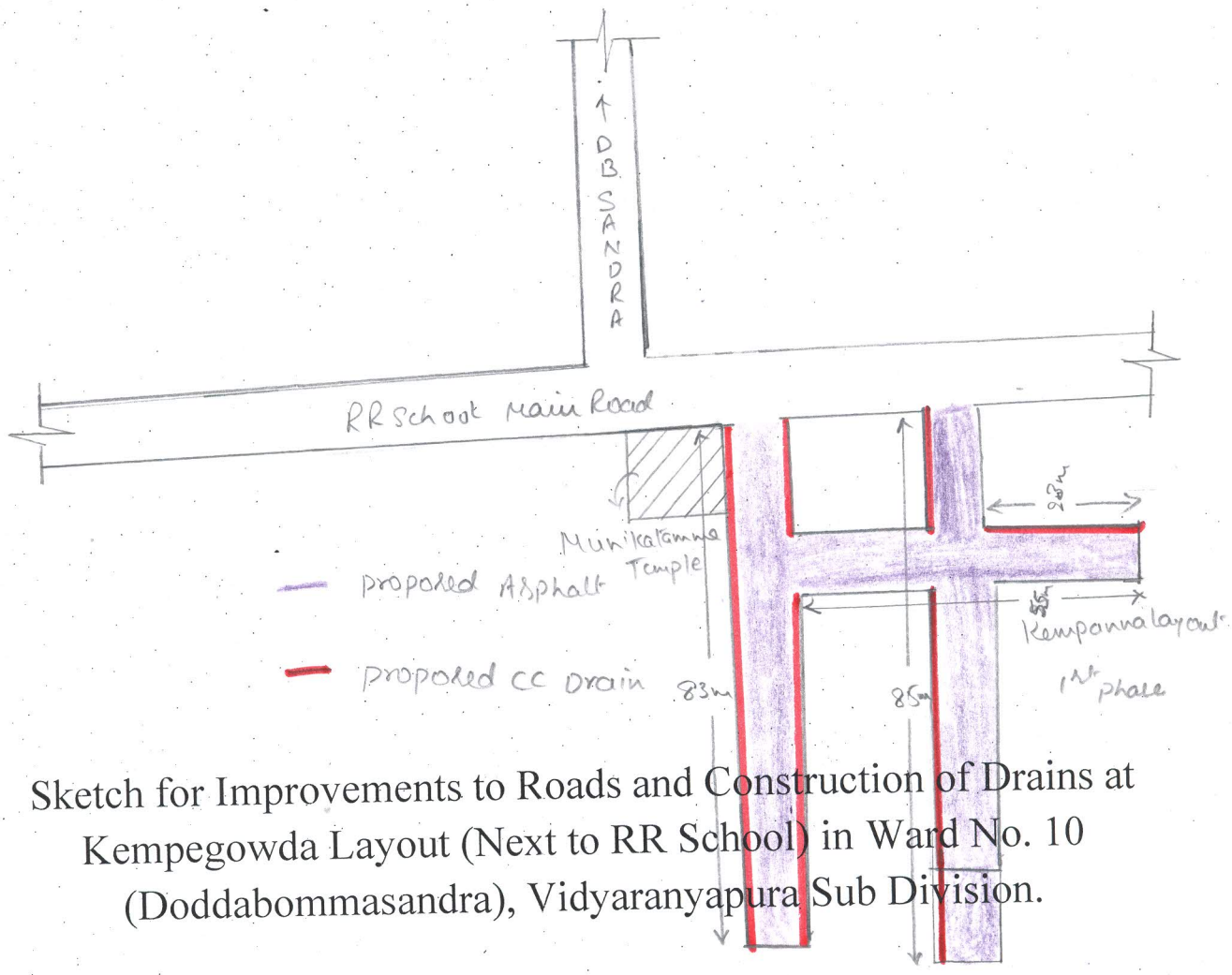
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Technical Sanction for Rs. B 19.50 Lakhs
Rs. Nineteen Lakh, fifty thousand only
P-1771
EE No: 180/13-14
Registered as EE No: Dated Subject to conditions contained enclosed memo.
No: 180/13-14 Dt. 29/10/13

AEE/E

EE (BTP.Div.)



Sketch for Improvements to Roads and Construction of Drains at Kempegowda Layout (Next to RR School) in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.

Zaidan
AE

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97